

**Flood Control Project Maintenance  
Levee Inspections**

**Fall 2014 Levee Maintenance Deficiency Summary Report**

**Overall LMA & Unit Ratings, including USACE Erosion Survey**

**Sacramento River Basin**

<b>MA0017</b>	Overall LMA Rating	Total LMA Miles						
<b>Sutter Maintenance Yard Maintenance Area 0017</b>	<b>U</b>	<b>3.87</b>						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation		3.13	12.52	323.13%				
Trim / Thin Trees		3.12	12.48	322.10%				
Encroachments					0.02			
<i>Supplemental</i>								
DWR UCIP Field Study					0.07	0.02		
<i>LMA Totals:</i>	0.00	6.25	25.00	645.23%	0.09	0.02	0.00	0.00

**Flood Control Project Maintenance  
Levee Inspections**  
**LMA District Cover Sheet**  
**Fall 2014 Levee Inspection Results**

**Sutter Maintenance Yard Maintenance Area 0017**

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)			U	

\*\* Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

\*

SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments


**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2014 Levee Inspection Results**

**Sutter Maintenance Yard Maintenance Area 0017**

Waterway			Bank	Unit Miles
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek			Left	3.87
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	03/11/2014 - 03/11/2014		10/24/2014 - 10/24/2014	
DWR Inspector	Bob Duffey		Bob Duffey	
Accompanied By	Bryan Reniff Sutter Maintenance Yard		Bryan Reniff Sutter Maintenance Yard	

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2014**

**Sutter Maintenance Yard Maintenance Area 0017**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	10/24/2014 10/24/2014	Bob Duffey

LM Start		Rating **	A	Issue No.	7
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals				°
					°
DWR ID	DWR_MA0017_01_s_2013_7				
Action/Comments					
Inspector Comments: The LMA has the O&M manuals.					

No Photos

LM Start		Rating **	A	Issue No.	8		
LM End		Issue Type +	Ma	Location *	N/A		
Category	Earthen Levee			GPS Latitude/Longitude			
				Start		End	
Item	Emergency Supplies & Equipment				°		°
					°		°
DWR ID	DWR_MA0017_01_s_2013_8						
Action/Comments							
Inspector Comments: The LMA has adequate flood fight supplies and equipment.							

No Photos

LM Start		Rating **	A	Issue No.	9		
LM End		Issue Type +	Ma	Location *	N/A		
Category	Earthen Levee			GPS Latitude/Longitude			
				Start		End	
Item	Flood Preparedness & Training				°		°
					°		°
DWR ID	DWR_MA0017_01_s_2013_9						
Action/Comments							
Inspector Comments: The LMA completed flood fight training in 2014.							

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2014**

**Sutter Maintenance Yard Maintenance Area 0017**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	10/24/2014 10/24/2014	Bob Duffey

LM Start	4.18	Rating **	U	Issue No.	2
LM End	7.30	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.142155 °	39.118735 °
				-122.902343 °	-122.884892 °
DWR ID	DWR_MA0017_01_s_2012_2				
Action/Comments					
Thin trees to allow visibility of the ground and room to flood fight.					

Photo 1 of 1 : FA\_2014\_MA0017\_339\_2\_20141013\_00002.jpg



View of the trees on the waterside slope of the Levee.

LM Start	4.18	Rating **	U	Issue No.	1
LM End	7.31	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.142155 °	39.118675 °
				-122.902343 °	-122.884772 °
DWR ID	DWR_MA0017_01_s_2012_1				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

Photo 1 of 1 : FA\_2014\_MA0017\_339\_1\_20141013\_00001.jpg



View of the six-foot crown levee &amp; heavy vegetation on waterside slope.

LM Start	4.28	Rating **	M	Issue No.	251
LM End	4.28	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.140422 °	39.140422 °
				-122.902022 °	-122.902022 °
DWR ID	DWR_MA0017_01_f_2014_251				
Action/Comments					
Inspector Comments: FS_ID:39106					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: No lid on riser-may or may not be an					
issue8/2/2013 Same as last inspection12/23/2013 Same as last					
inspection7/3/2014 Same as last inspection.					
FIELD_STRUCT_DESC: 24-inch CMP drainpipe through the levee, 19					
feet below the crown. Slide gate in 36-inch CMP riser on the waterward					
slope (USCE 1909).					
FS Date: 7/3/2014 1:14:53 PM					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2014**

**Sutter Maintenance Yard Maintenance Area 0017**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	10/24/2014 10/24/2014	Bob Duffey

LM Start	4.60	Rating **	A	Issue No.	260
LM End	4.60	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.136552 °	39.136552 °
				-122.900863 °	-122.900863 °
DWR ID	DWR_MA0017_01_f_2014_260				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : FA\_2014\_MA0017\_339\_260\_20141118\_00065.jpg



View of mowed vegetation on the landside slope.

LM Start	5.38	Rating **	M	Issue No.	252
LM End	5.38	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.127451 °	39.127451 °
				-122.893450 °	-122.893450 °
DWR ID	DWR_MA0017_01_f_2014_252				
Action/Comments					
Inspector Comments: FS_ID:39107 EP_NO: 11469 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: flood fight materials-ring levees around both LS and WS slopes at pipe crossing. This may or may not be an issue 8/2/2013 Same as last inspection 12/23/2013 Same as last inspection 7/3/2014 Same as last inspection. FIELD_STRUCT_DESC: 2 of 2: 36-inch steel drainpipe through the levee, 5.0 feet below the crown. Flap gate and air vent on the waterward slope. (ABO No.11469-R.D.# 2070). This entry matches the Drainage/Irrigation Structure referenced in O&M manual (Levee Mile 5.43). Permit document and O&M referred As-built drawings are available. O&M manual Vol. 5, Revision Year 2010. FS Date: 7/3/2014 1:16:43 PM					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Levee Inspection Report By Mile - Fall 2014**

**Sutter Maintenance Yard Maintenance Area 0017**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	10/24/2014 10/24/2014	Bob Duffey

LM Start	5.38	Rating **	M	Issue No.	253
LM End	5.38	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.127449 °	39.127449 °
				-122.893460 °	-122.893460 °
DWR ID	DWR_MA0017_01_f_2014_253				
Action/Comments					
Inspector Comments: FS_ID:39108 EP_NO: 11469 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: flood fight materials-ring levees around both LS and WS slopes at pipe crossing. This may or may not be an issue 2/2/2013 Same as last inspection 2/23/2013 Same as last inspection 7/3/2014 Same as last inspection. FIELD_STRUCT_DESC: 1 of 2: 16 inch steel drainpipe through the levee 5-feet below the crown. Drainage pumping plant on the landward side. Flap gate on the waterward end. (ABO No.11469-R.D.# 2070). This entry matches the Drainage/Irrigation Structure referenced in O&M manual (Levee Mile 5.43). Permit document and O&M referred As-built drawings are available. O&M manual Vol. 5, Revision Year 2010. FS Date: 7/3/2014 1:17:12 PM					

No Photos

LM Start	5.39	Rating **	M	Issue No.	18
LM End	5.39	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.127544 °	39.127544 °
				-122.893763 °	-122.893763 °
DWR ID	DWR_MA0017_01_s_2014_18				
Action/Comments					
Tree or limb					

Photo 1 of 1 : FA\_2014\_MA0017\_339\_18\_20141013\_00004.jpg



View of the downed tree along the landside toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
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**Levee Inspection Report By Mile - Fall 2014**

**Sutter Maintenance Yard Maintenance Area 0017**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	10/24/2014 10/24/2014	Bob Duffey

LM Start	5.81	Rating **	M	Issue No.	254
LM End	5.81	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.127612 °	39.127612 °
				-122.885520 °	-122.885520 °
DWR ID	DWR_MA0017_01_f_2014_254				
Action/Comments					
Inspector Comments: FS_ID:39110 EP_NO: 11457 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No cover on CMP riser and no handle for actuating gate. This may or may not be an issue6/2/2013 Handle to operate gate was in place but still no cover on riser12/23/2013 Same as last inspection7/3/2014 Same as last inspection. FIELD_STRUCT_DESC: 24-inch drainpipe under patrol road and through the levee, 13.5 feet below the crown. Concrete "U" shaped headwall on the landward end. Slide gate in 36-inch CMP riser on the waterward slope. Riser unit is mounted on concrete base. (ABO No.11457-Crawford). O&M manual Vol. 5, Revision Year 2010 FS Date: 7/3/2014 1:18:34 PM					

No Photos

LM Start	6.02	Rating **	M	Issue No.	255
LM End	6.02	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.126057 °	39.126057 °
				-122.883096 °	-122.883096 °
DWR ID	DWR_MA0017_01_f_2014_255				
Action/Comments					
Inspector Comments: FS_ID:39114					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: No permit for crossing 6/2/2013 Same as last inspection12/23/2013 No signs of 12" pvc. Portable tow-pump was lowered down on waterside with 12" pipe ran over roadway7/3/2014 Same as last inspection.					
FIELD_STRUCT_DESC: 12-inch HDPE storm drain pipe through the crown of the levee 1.5-feet below the crown.					
FS Date: 7/3/2014 1:20:49 PM					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2014**

**Sutter Maintenance Yard Maintenance Area 0017**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	10/24/2014 10/24/2014	Bob Duffey

LM Start	6.03	Rating **	U	Issue No.	256
LM End	6.03	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.126038 °	39.126038 °
				-122.883351 °	-122.883351 °
DWR ID	DWR_MA0017_01_f_2014_256				
Action/Comments					
Inspector Comments: FS_ID:39117					
EP_NO: N/A					
Repair Type: Urgent					
Crossing Status: Found					
UCIP Comments: No permit for this crossing. This is a primer line, used to fill up main pipe before its pump is turned on (Permit No. 114678/2/2013 Erosion on WS shoulder above pipe 2/23/2013 Same as last inspection 7/3/2014 Same as last inspection.					
FIELD_STRUCT_DESC: 4-inch PVC conduit through the levee 2-feet below the crown with plastic pipe running through it to pump on LS.					
FS Date: 7/3/2014 1:23:19 PM					

No Photos

LM Start	6.03	Rating **	U	Issue No.	257
LM End	6.03	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.126038 °	39.126038 °
				-122.883351 °	-122.883351 °
DWR ID	DWR_MA0017_01_f_2014_257				
Action/Comments					
Inspector Comments: FS_ID:39115					
EP_NO: N/A					
Repair Type: Urgent					
Crossing Status: Found					
UCIP Comments: No permit for this crossing. It is unclear what these hydraulic lines are for, but it is probably the works for a hydraulic butterfly valve at the outlet 8/2/2013 Erosion on WS shoulder above pipe 2/23/2013 Same as last inspection 7/3/2014 Same as last inspection.					
FIELD_STRUCT_DESC: 4-inch PVC conduit through the levee 2-feet below the crown with hydraulic lines running through it to pump on LS shoulder.					
FS Date: 7/3/2014 1:22:52 PM					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2014**

**Sutter Maintenance Yard Maintenance Area 0017**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	10/24/2014 10/24/2014	Bob Duffey

LM Start	6.03	Rating **	M	Issue No.	258
LM End	6.03	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.126027 °	39.126027 °
				-122.883371 °	-122.883371 °
DWR ID	DWR_MA0017_01_f_2014_258				
Action/Comments					
Inspector Comments: FS_ID:39118					
EP_NO: 11467					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: This pipe and appurtances do not match what was described in the permit (PN: 11467). Does not appear to be in compliance with board regulation 8/2/2013 Same as last inspection 12/23/2013 Same as last inspection 7/3/2014 Same as last inspection.					
FIELD_STRUCT_DESC: 12-inch drainpipe through the levee, 2-feet below the crown. Butterfly Valve on the landward shoulder. Pump and electric panel along with multiple valves and appurtances on LS shoulder. (ABO No.11467-Modglin) O&M manual Vol. 5, Revision Year 2010.					
FS Date: 7/3/2014 1:24:15 PM					

No Photos

LM Start	6.08	Rating **	M	Issue No.	5
LM End	6.08	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.126003 °	39.126003 °
				-122.883353 °	-122.883353 °
DWR ID	DWR_MA0017_01_s_2013_5				
Action/Comments					
Pipe Inspector Comments: View of the pipe encroachment crossing the crown.					

Photo 1 of 1 : FA\_2014\_MA0017\_339\_5\_20141118\_00066.jpg



View of the pipe encroachment crossing levee.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2014**

**Sutter Maintenance Yard Maintenance Area 0017**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	10/24/2014 10/24/2014	Bob Duffey

LM Start	6.74	Rating **	A	Issue No.	261
LM End	6.74	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.124650 °	39.124650 °
				-122.891787 °	-122.891787 °
DWR ID	DWR_MA0017_01_f_2014_261				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : FA\_2014\_MA0017\_339\_261\_20141118\_00067.jpg



View of the mowed vegetation on the landside slope.

LM Start	7.19	Rating **	M	Issue No.	259
LM End	7.19	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.120083 °	39.120083 °
				-122.886502 °	-122.886502 °
DWR ID	DWR_MA0017_01_f_2014_259				
Action/Comments					
Inspector Comments: FS_ID:39122 EP_NO: 11467 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe should be properly abandoned8/2/2013 Same as last inspection12/23/2013 Same as last inspection7/3/2014 Same as last inspection. FIELD_STRUCT_DESC: 1 of 2: *Abandoned* 16-inch Steel drainpipe through the levee 8-feet below the crown. Drainage pumping plant on the landward side. Flap gate on the waterward end. Steel plate welded on end of pipe at LS toe. (ABO No.11467- Modglin).This entry matches the Drainage/Irrigation Structure referenced in O&M manual (Levee Mile 7.19). Permit document and O&M referred As-built drawings are available. O&M manual Vol. 5, Revision Year 2010 FS Date: 7/3/2014 1:32:11 PM					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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